

Title (en)
ORGANOFUNCTIONALISED AEROGELS

Title (de)
ORGANOFUNKTIONALISIERTE AEROGELE

Title (fr)
AEROGELS ORGANOFONCTIONNALISES

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Application
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Abstract (en)
[origin: US6127306A] PCT No. PCT/EP96/03999 Sec. 371 Date Jul. 6, 1998 Sec. 102(e) Date Jul. 6, 1998 PCT Filed Sep. 12, 1996 PCT Pub. No. WO97/10178 PCT Pub. Date Mar. 20, 1997The invention relates to aerogels containing functional residues of the formula (I)-Y-Z, wherein Y is a straight-chained or branched alkylene group with 1 to 22 carbon atoms; Z is halogen, pseudohalogen, SR1, PR2R3, colorant residue or metal complex residue; R1 is H, a straight-chained or branched alkyl group with 1 to 22 carbon atoms or an aryl group with 4 to 10 carbon atoms; and R2 and R3 are identical or different, a straight-chained or branched alkyl group with 1 to 22 carbon atoms, or an aryl group with 4 to 10 carbon atoms. The aerogels are suitable, for example, as catalyst staves and/or sensors. They can be obtained by metal alcoholates and metal alcoholates in which at least one alcoholate residue is replaced by the -Y-Z group being converted into a lyogel by hydrolysis and condensation, and subsequently being dried.

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